INTERNATIONAL SEARCH REPORT

In ational Application No PCT/BE 03/00192

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K16/28 C07K16/18 C07K16/46 GO1N33/577 A61P37/06 A61P19/02

A61K39/395 C12N15/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61K-C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

Further documents are listed in the continuation of box C.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO 91/02078 A (PEPTIDE TECHNOLOGY LTD) 21 February 1991 (1991-02-21) page 3, line 28 -page 4, line 24 page 15, line 25 - line 33	1
Υ		2-49
Y	ELS CONRATH K ET AL: "Camel single-domain antibodies as modular building units in bispecific and bivalent antibody constructs" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 276, no. 10, 9 March 2001 (2001-03-09), pages 7346-7350, XP002248402 ISSN: 0021-9258 the whole document	2-49
I	_/	1

Special categories of teted documents: And document endering the general state of the art which is not considered to be of particular relevance "E" earlier document but published no or after the international filing date. "It filling date. "It states that the properties of the	The later document published after the literaturational filing data or priority date and not in conditive with the application but clade to innotestand the principle or theory underlying the but clade to innotestand the principle or theory underlying the CV document of protection are to the claimed investigation of the control the control the control cannot be considered novel or cannot be considered and in solved as in written deep when the document is learn entire and the control of the control
Date of the actual completion of the International search	Date of mailing of the international search report
7 May 2004	14/05/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+317-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Le Flao, K

Patent family members are listed in annex.

INTERNATIONAL SEARCH REPORT

in tional Application No PCT/BE 03/00192

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ VALLE F FT AL: "Infliximab" 1-49 EXPERT OPINION ON PHARMACOTHERAPY, ASHLEY, LONDON,, GB, vol. 2, June 2001 (2001-06), pages 1015-1025, XP002965315 ISSN: 1465-6566 the whole document Υ WO 02/057445 A (MURUGANANDAM ARUMUGAM 1 - 49STANIMIROVIC DANICA (CA); NARANG SARAM (CA)) 25 July 2002 (2002-07-25) page 18, line 29 -page 47, line 18 Α WO 02/079781 A (ANDREWS JANET S : HESKA CORP (US): JENSEN WAYNE A (US): MCDONALD TH) 10 October 2002 (2002-10-10) page 26, line 25 -page 28, line 21 page 29, line 14 - line 20 TANHA J ET AL: "Selection by phage Α 1-49 display of llama conventional VH fragments with heavy chain antibody VHH properties" JOURNAL OF IMMUNOLOGICAL METHODS. ELSEVIER. AMSTERDAM. NL. vol. 263, no. 1-2, 1 May 2002 (2002-05-01), pages 97-109, XP004354388 ISSN: 0022-1759 the whole document Α D'HAENS G ET AL: "ENDOSCOPTC AND 1-47 HISTOLOGICAL HEALING WITH INFLIXIMAB ANTI-TUMOR NECROSIS FACTOR ANTIBODIES IN CROHN'S DISEASE: A EUROPEAN MULTICENTER GASTROENTEROLOGY, SAUNDERS, PHILADELPHIA. PA,, US, vol. 116, no. 5, May 1999 (1999-05), pages 1029-1034, XP009009036 ISSN: 0016-5085 the whole document

ternational application No. PCT/BE 03/00192

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: 22-24 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meetingful Informational Search can be certified out, specifically: see FURTHER INFORMATION sheet PCT/TSA/210
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 22-24

Present claims 22-24 relate to a product defined by reference to a desirable characteristic or property, namely "an unknown agent that modulates the binding of an anti-TNF-alpha polypeptide of any of claims 1 to 11, and 13 to 16 to Tumor Necrosis Factor-alpha" (claim 22) and "an unknown agent that modulates Tumor Necrosis Factor-alpha" (claim 22) and "an unknown agent that modulates Tumor Necrosis Factor-alpha" and the disorders" (claim 23). The scope of claims 22-24 is unclear and speculative within the meaning of Article 6 PCT. Said claims lack indication concerning their technical features. The available experimental data actually relate to anti-TNF-alpha single domain antibodies and their preparation, but not to an agent that modulates their binding. Consequently no search has been carried out for the claims 22-24.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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